SEQUENCE LISTING

<110> The University of Queensland
National Institute of Biological Standards and Control

<120> Novel anti-fibrinolytic agents

<130> Textilinins

<140> PCT/AU99/0XXX
<141> 1999-05-10

<150> AU PP3450
<151> 1999-05-11

<160> 44

<170> PatentIn Ver. 2.0

<210> 1
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<220>
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<400> 1

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Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro Cys
 1               5                  10                  15

aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa aaa aag tgc   96
Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Lys Lys Cys
            20                  25                  30

cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc  144
Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
        35                  40                  45

acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga                  180
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
    50                  55                  60
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<210> 2
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 2

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Lys Asp Arg Pro Asp Phe Cys Glu Leu Pro Ala Asp Thr Gly Pro Cys
  1               5                  10                  15

Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Lys Lys Cys
            20                  25                  30

Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
        35                  40                  45

Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
    50                  55
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<210> 3
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<400> 3

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Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys
  1               5                  10                  15

aga gtc aga ttc cca tcc ttc tac tac aac cca gat gaa caa aaa tgc   96
Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys
            20                  25                  30

cta gag ttt att tat ggt gga tgc gaa ggg aat gct aac aat ttt atc  144
Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
        35                  40                  45

acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga                  180
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
    50                  55                  60
```

<210> 4
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 4

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Lys Asp Arg Pro Glu Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys
  1               5                  10                  15

Arg Val Arg Phe Pro Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys
            20                  25                  30

Leu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Ile
        35                  40                  45
```

```
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
     50                  55


<210> 5
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aag gac cgt cca aat ttc tgt aaa ctg cct gct gaa acc gga cga tgt    48
Lys Asp Arg Pro Asn Phe Cys Lys Leu Pro Ala Glu Thr Gly Arg Cys
  1               5                  10                  15

aat gcc aaa atc cca cgc ttc tac tac aac cca cgt caa cat caa tgc    96
Asn Ala Lys Ile Pro Arg Phe Tyr Tyr Asn Pro Arg Gln His Gln Cys
             20                  25                  30

ata gag ttt ctc tat ggt gga tgc gga ggg aat gct aac aat ttt aag   144
Ile Glu Phe Leu Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
         35                  40                  45

acc att aag gaa tgc gaa agc acc tgt gct gca tga                   180
Thr Ile Lys Glu Cys Glu Ser Thr Cys Ala Ala
     50                  55                  60


<210> 6
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 6
Lys Asp Arg Pro Asn Phe Cys Lys Leu Pro Ala Glu Thr Gly Arg Cys
  1               5                  10                  15

Asn Ala Lys Ile Pro Arg Phe Tyr Tyr Asn Pro Arg Gln His Gln Cys
             20                  25                  30

Ile Glu Phe Leu Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
         35                  40                  45

Thr Ile Lys Glu Cys Glu Ser Thr Cys Ala Ala
     50                  55


<210> 7
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<212> DNA
<213> Pseudonaja textilis
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<220>
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<222> (1)..(180)

<400> 7

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Lys Asp His Pro Lys Phe Cys Glu Leu Pro Ala Glu Thr Gly Ser Cys
  1               5                  10                  15

aaa ggc aac gtc cca cgc ttc tac tac aac gca gat cat cat caa tgc    96
Lys Gly Asn Val Pro Arg Phe Tyr Tyr Asn Ala Asp His His Gln Cys
             20                  25                  30

cta aaa ttt att tat ggt gga tgt gga ggg aat gct aac aat ttt aag   144
Leu Lys Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
         35                  40                  45

acc ata gag gaa ggc aaa agc acc tgt gct gcc tga                   180
Thr Ile Glu Glu Gly Lys Ser Thr Cys Ala Ala
     50                  55                  60
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<210> 8
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 8

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Lys Asp His Pro Lys Phe Cys Glu Leu Pro Ala Glu Thr Gly Ser Cys
  1               5                  10                  15

Lys Gly Asn Val Pro Arg Phe Tyr Tyr Asn Ala Asp His His Gln Cys
             20                  25                  30

Leu Lys Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Lys
         35                  40                  45

Thr Ile Glu Glu Gly Lys Ser Thr Cys Ala Ala
     50                  55
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<213> Pseudonaja textilis

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<400> 9

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Lys Asp Arg Pro Lys Phe Cys Glu Leu Leu Pro Asp Thr Gly Ser Cys
  1               5                  10                  15

gaa gac ttt acc gga gcc ttc cac tac agc aca cgt gat cgt gaa tgc   96
Glu Asp Phe Thr Gly Ala Phe His Tyr Ser Thr Arg Asp Arg Glu Cys
             20                  25                  30

ata gag ttt att tat ggt gga tgc gga ggg aat gct aac aat ttt atc   144
Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile
         35                  40                  45

acc aaa gag gaa tgc gaa agc acc tgt gct gcc tga                   180
Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
     50                  55                  60
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<210> 10
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 10

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Lys Asp Arg Pro Lys Phe Cys Glu Leu Leu Pro Asp Thr Gly Ser Cys
  1               5                  10                  15

Glu Asp Phe Thr Gly Ala Phe His Tyr Ser Thr Arg Asp Arg Glu Cys
             20                  25                  30

Ile Glu Phe Ile Tyr Gly Gly Cys Gly Gly Asn Ala Asn Asn Phe Ile
         35                  40                  45

Thr Lys Glu Glu Cys Glu Ser Thr Cys Ala Ala
     50                  55
```

<210> 11
<211> 180
<212> DNA
<213> Pseudonaja textilis

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<221> mat_peptide
<222> (1)..(180)

<400> 11

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aag gac cgt cca aag ttc tgt gaa ctg cct gct gac atc gga cca tgg   48
Lys Asp Arg Pro Lys Phe Cys Glu Leu Pro Ala Asp Ile Gly Pro Trp
  1               5                  10                  15

gat gac ttt acc gga gcc ttc cac tac agc cca cgt gaa cat gaa tgc   96
Asp Asp Phe Thr Gly Ala Phe His Tyr Ser Pro Arg Glu His Glu Cys
             20                  25                  30

ata gag ttt att tat ggt gga tgc aaa ggg aat gct aac aac ttt aat   144
```

```
Ile Glu Phe Ile Tyr Gly Gly Cys Lys Gly Asn Ala Asn Asn Phe Asn
         35                  40                  45

acc caa gag caa tgc gaa agc acc tgt gct gcc tga                  180
Thr Gln Glu Gln Cys Glu Ser Thr Cys Ala Ala
     50                  55                  60


<210> 12
<211> 59
<212> PRT
<213> Pseudonaja textilis

<400> 12
Lys Asp Arg Pro Lys Phe Cys Glu Leu Pro Ala Asp Ile Gly Pro Trp
  1               5                  10                  15

Asp Asp Phe Thr Gly Ala Phe His Tyr Ser Pro Arg Glu His Glu Cys
             20                  25                  30

Ile Glu Phe Ile Tyr Gly Gly Cys Lys Gly Asn Ala Asn Asn Phe Asn
         35                  40                  45

Thr Gln Glu Gln Cys Glu Ser Thr Cys Ala Ala
     50                  55


<210> 13
<211> 72
<212> DNA
<213> Pseudonaja textilis

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<222> (1)..(72)

<400> 13
atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg   48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15

gag gtg ctg acc ccc gtc tcc agc                                  72
Glu Val Leu Thr Pro Val Ser Ser
             20


<210> 14
<211> 24
<212> PRT
<213> Pseudonaja textilis

<400> 14
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15
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```
Glu Val Leu Thr Pro Val Ser Ser
            20


<210> 15
<211> 252
<212> DNA
<213> Pseudonaja textilis

<220>
<221> CDS
<222> (1)..(252)

<220>
<221> sig_peptide
<222> (1)..(72)

<220>
<221> mat_peptide
<222> (73)..(252)

<400> 15
atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg    48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
                -20                 -15                 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt ccg gat ttc tgt gaa    96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu
            -5              -1   1               5

ctg cct gct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac   144
Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
     10                  15                  20

tac aac cca gat gaa aaa aag tgc cta gag ttt att tat ggt gga tgc   192
Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
 25                  30                  35                  40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc   240
Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
                45                  50                  55

tgt gct gcc tga                                                  252
Cys Ala Ala
            60


<210> 16
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 16
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asp Phe Cys Glu
            20                  25                  30
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```
Leu Pro Ala Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
         35                  40                  45

Tyr Asn Pro Asp Glu Lys Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
     50                  55                  60

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
 65                  70                  75                  80

Cys Ala Ala
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<210> 17
<211> 252
<212> DNA
<213> Pseudonaja textilis

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<220>
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<222> (73)..(252)

<400> 17

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atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg   48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
                -20                 -15                 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca gag ttg tgt gaa   96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu
            -5                  -1   1                  5

ctg cct cct gac acc gga cca tgt aga gtc aga ttc cca tcc ttc tac   144
Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
     10                  15                  20

tac aac cca gat gaa caa aaa tgc cta gag ttt att tat ggt gga tgc   192
Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
 25                  30                  35                  40

gaa ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc   240
Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
                45                  50                  55

tgt gct gcc tga                                                 252
Cys Ala Ala
            60
```

<210> 18
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 18
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
1 5 10 15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu Leu Cys Glu
20 25 30

Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Phe Pro Ser Phe Tyr
35 40 45

Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile Tyr Gly Gly Cys
50 55 60

Glu Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
65 70 75 80

Cys Ala Ala

<210> 19
<211> 252
<212> DNA
<213> Pseudonaja textilis

<220>
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<221> sig_peptide
<222> (1)..(72)

<220>
<221> mat_peptide
<222> (73)..(252)

<400> 19
atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg 48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
-20 -15 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aat ttc tgt aaa 96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys
-5 -1 1 5

ctg cct gct gaa acc gga cga tgt aat gcc aaa atc cca cgc ttc tac 144
Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr
10 15 20

tac aac cca cgt caa cat caa tgc ata gag ttt ctc tat ggt gga tgc 192
Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys
25 30 35 40

gga ggg aat gct aac aat ttt aag acc att aag gaa tgc gaa agc acc 240
Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr
45 50 55

tgt gct gca tga 252

Cys Ala Ala
60

<210> 20
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 20
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
1 5 10 15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Asn Phe Cys Lys
20 25 30

Leu Pro Ala Glu Thr Gly Arg Cys Asn Ala Lys Ile Pro Arg Phe Tyr
35 40 45

Tyr Asn Pro Arg Gln His Gln Cys Ile Glu Phe Leu Tyr Gly Gly Cys
50 55 60

Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Lys Glu Cys Glu Ser Thr
65 70 75 80

Cys Ala Ala

<210> 21
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<212> DNA
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Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
-20 -15 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cat cca aaa ttc tgt gaa 96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu
-5 -1 1 5

ctc cct gct gaa acc gga tca tgt aaa ggc aac gtc cca cgc ttc tac 144
Leu Pro Ala Glu Thr Gly Ser Cys Lys Gly Asn Val Pro Arg Phe Tyr
10 15 20

tac aac gca gat cat cat caa tgc cta aaa ttt att tat ggt gga tgt 192

```
Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys
 25                  30                  35                  40

gga ggg aat gct aac aat ttt aag acc ata gag gaa ggc aaa agc acc   240
Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Gly Lys Ser Thr
                 45                  50                  55

tgt gct gcc tga                                                  252
Cys Ala Ala
             60


<210> 22
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 22
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp His Pro Lys Phe Cys Glu
             20                  25                  30

Leu Pro Ala Glu Thr Gly Ser Cys Lys Gly Asn Val Pro Arg Phe Tyr
         35                  40                  45

Tyr Asn Ala Asp His His Gln Cys Leu Lys Phe Ile Tyr Gly Gly Cys
     50                  55                  60

Gly Gly Asn Ala Asn Asn Phe Lys Thr Ile Glu Glu Gly Lys Ser Thr
 65                  70                  75                  80

Cys Ala Ala


<210> 23
<211> 252
<212> DNA
<213> Pseudonaja textilis

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<220>
<221> mat_peptide
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<400> 23
atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg   48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
                -20                 -15                 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aaa ttc tgt gaa   96
```

```
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
                -5                -1   1                   5

ctg ctt cct gac acc gga tca tgt gaa gac ttt acc gga gcc ttc cac   144
Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His
     10                  15                  20

tac agc aca cgt gat cgt gaa tgc ata gag ttt att tat ggt gga tgc   192
Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25                  30                  35                  40

gga ggg aat gct aac aat ttt atc acc aaa gag gaa tgc gaa agc acc   240
Gly Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
                 45                  50                  55

tgt gct gcc tga                                                  252
Cys Ala Ala
            60
```

<210> 24
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 24

```
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
            20                  25                  30

Leu Leu Pro Asp Thr Gly Ser Cys Glu Asp Phe Thr Gly Ala Phe His
        35                  40                  45

Tyr Ser Thr Arg Asp Arg Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
    50                  55                  60

Gly Gly Asn Ala Asn Asn Phe Ile Thr Lys Glu Glu Cys Glu Ser Thr
65                  70                  75                  80

Cys Ala Ala
```

<210> 25
<211> 252
<212> DNA
<213> Pseudonaja textilis

<220>
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<220>
<221> mat_peptide

<222> (73)..(252)

<400> 25

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atg tct tct gga ggt ctt ctt ctc ctg ctg gga ctc ctc acc ctc tgg    48
Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
                -20                 -15                 -10

gag gtg ctg acc ccc gtc tcc agc aag gac cgt cca aag ttc tgt gaa    96
Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
          -5                  -1   1                   5

ctg cct gct gac atc gga cca tgg gat gac ttt acc gga gcc ttc cac   144
Leu Pro Ala Asp Ile Gly Pro Trp Asp Asp Phe Thr Gly Ala Phe His
     10                  15                  20

tac agc cca cgt gaa cat gaa tgc ata gag ttt att tat ggt gga tgc   192
Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
 25                  30                  35                  40

aaa ggg aat gct aac aac ttt aat acc caa gag caa tgc gaa agc acc   240
Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Gln Cys Glu Ser Thr
                45                  50                  55

tgt gct gcc tga                                                  252
Cys Ala Ala
            60
```

<210> 26
<211> 83
<212> PRT
<213> Pseudonaja textilis

<400> 26

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Met Ser Ser Gly Gly Leu Leu Leu Leu Leu Gly Leu Leu Thr Leu Trp
  1               5                  10                  15

Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Lys Phe Cys Glu
            20                  25                  30

Leu Pro Ala Asp Ile Gly Pro Trp Asp Asp Phe Thr Gly Ala Phe His
        35                  40                  45

Tyr Ser Pro Arg Glu His Glu Cys Ile Glu Phe Ile Tyr Gly Gly Cys
    50                  55                  60

Lys Gly Asn Ala Asn Asn Phe Asn Thr Gln Glu Gln Cys Glu Ser Thr
65                  70                  75                  80

Cys Ala Ala
```

<210> 27
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:degenerate

sense primer

<400> 27
atgaargaya grcchgaryt ngar 24

<210> 28
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:degenerate antisense primer

<400> 28
gtrctytcrt gytcytcy 18

<210> 29
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gene-specific forward primer for Txln1

<400> 29
atatatggat ccaaggaccg gcctgacttc 30

<210> 30
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gene-specific reverse primer for Txln1

<400> 30
aacgggaatt ctcagagcca cacgtgcttt c 31

<210> 31
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gene-specific reverse primer for Txln2

<400> 31
aacgggaatt ctcatgagcc acaggtagac tc 32

<210> 32

<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:RACE-ready long universal reverse primer

<400> 32
ctaatacgac tcactatagg gcaagcagtg gtaacaacgc agagt 45

<210> 33
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:RACE-ready short universal reverse primer

<400> 33
ctaatacgac tcactatagg gc 22

<210> 34
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:RACE-ready nested universal reverse primer

<400> 34
aagcagtggt aacaacgcag agt 23

<210> 35
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Txln1-gene specific forward primer

<400> 35
atcagcggat ccatgtctgg aggt 24

<210> 36
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Txln1 gene-specific reverse primer

<400> 36
tctcctgaat tctcaggcag cacaggt 27

<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Txln-active peptide sequence forward primer

<400> 37
attataggat ccaaggaccg tccggat 27

<210> 38
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gene-specific forward primer for txln2

<400> 38
attataggat ccaaggaccg tccagag 27

<210> 39
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:gene-specific forward primer for Txln3

<400> 39
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<210> 40
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Thr Leu Trp Glu Val Leu Thr Pro Val Ser Ser Lys Asp Arg Pro Glu
-10 -5 -1 1 5

ttg tgt gaa ctg cct cct gac acc gga cca tgt aga gtc aga tcc cca 146
Leu Cys Glu Leu Pro Pro Asp Thr Gly Pro Cys Arg Val Arg Ser Pro
10 15 20

tcc ttc tac tac aac cca gat gaa caa aaa tgc cta gag ttt att 191
Ser Phe Tyr Tyr Asn Pro Asp Glu Gln Lys Cys Leu Glu Phe Ile
25 30 35

tatggtggat gcgaagggaa tgctaaccaa ttttatcacc aaagaggaat gcgaaagcac 251

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			-5				-1	1				5			
Leu	Pro	Pro	Asp	Thr	Gly	Pro	Cys	Arg	Val	Arg	Ser	Pro	Ser	Phe	Tyr
	10					15					20				
Tyr	Asn	Pro	Asp	Glu	Gln	Lys	Cys	Leu	Glu	Phe	Ile				
25					30					35					